

Appl. No.: 09/865,238  
Amdt. dated October 28, 2004  
Reply to Office action of July 28, 2004

**Amendments to the Specification**

Please amend paragraph 0007 to read as follows:

[0007] However, to simplify the receiver structure, commercial OFDM systems augment the time domain sample sequence by prefixing a cyclic prefix to the sample sequence. The cyclic prefix is a duplication of the last portion of the sample sequence. This cyclic prefix makes the received symbol appear cyclic, which allows the transmission of data through the channel to be modeled as a circular convolution. This diminishes the need for sophisticated equalization techniques in the receiver. The intersymbol interference that trails from the last portion of the sample sequence of one OFDM symbol overlaps the first portion of the sample sequence of the next OFDM symbol. The receivers generally demodulate the received symbol by trimming off the cyclic prefix and performing a DFT on the sample sequence. Channel equalization may be performed in the frequency domain by simple scaling of the DFT coefficients. The coefficients values indicated indicate the transmitted bit values, which can then be reassembled to obtain the transmitted data word. Commercial OFDM systems include high-speed modems and digital broadcast systems.

**In the Abstract**

Please delete lines 16-17.